

# REPLACEMENT SHEET

## FIG. 2A

	(SEQ ID NO. 28)	Q V Q L Q Q S G P E L V K P
KRI27VH	(SEQ ID NO. 27)	CAG GTC CAG CTG CAG CAG TCT GGA CCT GAA CTG GTG AAG CCT 42
	(SEQ ID NO. 44)	Q V Q L V Q S G A E V K K P
DP7-JH4	(SEQ ID NO. 43)	CAG GTG CAG CTG GTG CAG TCT GGG GCT GAG GTG AAG AAG CCT
HZI	(SEQ ID NO. 35)	CAG GTC CAG CTG GTG CAG TCT GGA GCT GAA GTG GTG AAG CCT
HZVII	(SEQ ID NO. 1)	CAG GTC CAG CTG GTG CAG TCT GGA GCT GAA GTG AAG AAG CCT
HZI	(SEQ ID NO. 36)	- - - - V - - - A - V - - -
HZVII	(SEQ ID NO. 2)	- - - - V - - - A - V K - -
	(SEQ ID NO. 28)	G A S V K I S C K A S G Y A
KRI27VH	(SEQ ID NO. 27)	GGG GCC TCA GTG AAG ATT TCC TGC AAA GCT TCT GGC TAC GCA 84
	(SEQ ID NO. 44)	G A S V K V S C K A S G Y T
DP7-JH4	(SEQ ID NO. 43)	GGG GCC TCA GTG AAG GTT TCC TGC AAG GCA TCT GGA TAC ACC
HZI	(SEQ ID NO. 35)	GGG GCC TCA GTG AAG GTT TCC TGC AAA GCT TCT GGC TAC GCA
HZVII	(SEQ ID NO. 1)	GGG GCC TCA GTG AAG GTT TCC TGC AAA GCT TCT GGC TAC ACC
HZI	(SEQ ID NO. 36)	- - - - V - - - - - - -
HZVII	(SEQ ID NO. 2)	- - - - V - - - - - - T
	(SEQ ID NO. 28)	F S <u>S S W M N</u> W V K Q R P G
KRI27VH	(SEQ ID NO. 27)	TTC AGT AGT TCT TGG ATG AAC TGG GTG AAG CAG AGG CCT GGA 126
	(SEQ ID NO. 44)	F T S Y Y M H W V R Q A P G
DP7-JH4	(SEQ ID NO. 43)	TTC ACC AGC TAC TAT ATG CAC TGG GTG CGA CAG GCC CCT GGA
HZI	(SEQ ID NO. 35)	TTC AGT AGT TCT TGG ATG AAC TGG GTG CGA CAG GCC CCT GGA
HZVII	(SEQ ID NO. 1)	TTC ACC AGT GCT TGG ATG AAC TGG GTG CGA CAG GCC CCT GGA
HZI	(SEQ ID NO. 36)	- - - - - - - R - A - -
HZVII	(SEQ ID NO. 2)	- T - A - - - - - R - A - -
	(SEQ ID NO. 28)	Q G L E W I G <u>R I Y P</u> G D G
KRI27VH	(SEQ ID NO. 27)	CAG GGT CTT GAG TGG ATT GGA CGG ATT TAT CCT GGA GAT GGA 168
	(SEQ ID NO. 44)	Q G L E W M G I I N P S G G
DP7-JH4	(SEQ ID NO. 43)	CAA GGG CTT GAG TGG ATG GGA ATA ATC AAC CCT AGT GGT GGT
HZI	(SEQ ID NO. 35)	CAG GGT CTT GAG TGG ATT GGA CGG ATT TAT CCT GGA GAT GGA
HZVII	(SEQ ID NO. 1)	CAG GGT CTT GAG TGG ATG GGA CGG ATT TAT CCT AGT GGT GGA
HZI	(SEQ ID NO. 36)	- - - - - - - - - - -
HZVII	(SEQ ID NO. 2)	- - - - - M - - - - - S G -

# REPLACEMENT SHEET

## FIG. 2B

		CDR2													
		D	T	N	Y	N	G	K	F	K	G	K	A	T	L
KRI27VH	(SEQ ID NO. 28)	GAT	ACT	AAC	TAC	AAT	GGG	AAG	TTC	AAG	GGC	AAG	GCC	ACA	CTG 210
	(SEQ ID NO. 44)	S	T	S	Y	A	Q	K	F	Q	G	R	V	T	M
DP7-JH4	(SEQ ID NO. 43)	AGC	ACA	AGC	TAC	GCA	CAG	AAG	TTC	CAG	GGC	AGA	GTC	ACC	ATG
HZI	(SEQ ID NO. 35)	GAT	ACT	AAC	TAC	GCA	CAG	AAG	TTC	CAG	GGC	AAG	GCC	ACA	CTG
HZVII	(SEQ ID NO. 1)	AGC	ACT	AGC	TAC	GCA	CAG	AAG	TTC	CAG	GGC	AGA	GTC	ACA	ATG
HZI	(SEQ ID NO. 36)	-	-	-	-	A	Q	-	-	Q	-	-	-	-	-
HZVII	(SEQ ID NO. 2)	S	-	S	-	A	Q	-	-	Q	-	R	V	-	M
	(SEQ ID NO. 28)	T	A	D	K	S	S	S	T	A	Y	M	Q	L	S
KRI27VH	(SEQ ID NO. 27)	ACT	GCA	GAC	AAA	TCC	TCC	AGC	ACA	GCC	TAC	ATG	CAG	CTC	AGC 252
	(SEQ ID NO. 44)	T	R	D	T	S	T	S	T	V	Y	M	E	L	S
DP7-JH4	(SEQ ID NO. 43)	ACC	AGG	GAC	ACG	TCC	ACG	AGC	ACA	GTC	TAC	ATG	GAG	CTG	AGC
HZI	(SEQ ID NO. 35)	ACT	GCA	GAC	AAA	TCC	ACG	AGC	ACA	GCC	TAC	ATG	GAG	CTC	AGC
HZVII	(SEQ ID NO. 1)	ACT	GCA	GAC	AAA	TCC	ACG	AGC	ACA	GTC	TAC	ATG	GAG	CTC	AGC
HZI	(SEQ ID NO. 36)	-	-	-	-	-	T	-	-	-	-	-	E	-	-
HZVII	(SEQ ID NO. 2)	-	-	-	-	-	T	-	-	V	-	-	E	-	-
	(SEQ ID NO. 28)	S	L	T	S	V	D	S	A	V	Y	F	C	A	R
KRI27VH	(SEQ ID NO. 27)	AGC	CTG	ACC	TCT	GTG	GAC	TCT	GCG	GTC	TAT	TTC	TGT	GCA	AGA 294
	(SEQ ID NO. 44)	S	L	R	S	E	D	T	A	V	Y	Y	C	A	R
DP7-JH4	(SEQ ID NO. 43)	AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCC	GTG	TAT	TAC	TGT	GCG	AGA
HZI	(SEQ ID NO. 35)	AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCG	GTC	TAT	TTC	TGT	GCA	AGA
HZVII	(SEQ ID NO. 1)	AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCG	GTG	TAT	TAC	TGT	GCA	AGA
HZI	(SEQ ID NO. 36)	-	-	R	-	E	-	T	-	-	-	-	-	-	-
HZVII	(SEQ ID NO. 2)	-	-	R	-	E	-	T	-	-	-	Y	-	-	-
		CDR3													
		E	Y	D	E	A	Y	W	G	Q	G	T	L	V	T
KRI27VH	(SEQ ID NO. 27)	GAG	TAC	GAC	GAG	GCT	TAC	TGG	GGC	CAA	GGG	ACT	CTG	GTC	ACT 336
	(SEQ ID NO. 44)							W	G	Q	G	T	L	V	T
DP7-JH4	(SEQ ID NO. 43)	NNN	NNN	NNN	NNN	NNN	TAC	TGG	GGC	CAA	GGA	ACT	CTG	GTC	ACT
HZI	(SEQ ID NO. 35)	GAG	TAC	GAC	GAG	GCT	TAC	TGG	GGC	CAA	GGA	ACT	CTG	GTC	ACT
HZVII	(SEQ ID NO. 1)	GAG	TAC	CGG	GTT	GCC	CGT	TGG	GGC	CAA	GGA	ACT	CTG	GTC	ACT
HZI	(SEQ ID NO. 36)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HZVII	(SEQ ID NO. 2)	-	-	R	V	-	E	-	-	-	-	-	-	-	-

REPLACEMENT SHEET

FIG. 2C

	(SEQ ID NO. 28)	V	S	A
KRI27VH	(SEQ ID NO. 27)	GTC	TCT	GCA 345
	(SEQ ID NO. 44)	V	S	S
DP7-JH4	(SEQ ID NO. 43)	GTC	TCT	TCA
HZI	(SEQ ID NO. 35)	GTC	TCT	TCA
HZVII	(SEQ ID NO. 1)	GTC	TCT	TCA
HZI	(SEQ ID NO. 36)	-		S
HZVII	(SEQ ID NO. 2)	-		S

# REPLACEMENT SHEET

## FIG. 4A

	(SEQ ID NO. 30)	D I L M T Q T P L I L S V T
KRI27VK	(SEQ ID NO. 29)	GAT ATC TTG ATG ACC CAA ACT CCA CTT ATT TTG TCG GTT ACC 42
	(SEQ ID NO. 48)	D I V M T Q T P L S L S V T
DPK12-JK4	(SEQ ID NO. 45)	GAT ATT GTG ATG ACC CAG ACT CCA CTC TCT CTG TCC GTC ACC
HZI	(SEQ ID NO. 37)	GAT ATC TTG ATG ACC CAA ACT CCA CTT TCT TTG TCG GTT ACC
HZIV	(SEQ ID NO. 3)	GAT ATC GTG ATG ACC CAA ACT CCA CTT TCT TTG TCG GTT ACC
HZI	(SEQ ID NO. 38)	- - - - - - - - S - - - -
HZIV	(SEQ ID NO. 4)	- - V - - - - - - S - - - -
	(SEQ ID NO. 30)	I G Q P A S I S C <u>K S</u> <sup>CDR1</sup> S Q S
KRI27VK	(SEQ ID NO. 29)	ATT GGA CAA CCA GCC TCT ATC TCT TGC AAG TCA AGT CAG AGC 84
	(SEQ ID NO. 46)	P G Q P A S I S C K S S Q S
DPK12-JK4	(SEQ ID NO. 45)	CCT GGA CAG CCG GCC TCC ATC TCC TGC AAG TCT AGT CAG AGC
HZI	(SEQ ID NO. 37)	CCT GGA CAA CCA GCC TCT ATC TCT TGC AAG TCA AGT CAG AGC
HZIV	(SEQ ID NO. 3)	CCT GGA CAA CCA GCC TCT ATC TCT TGC AAG TCA AGT CAG AGC
HZI	(SEQ ID NO. 38)	P - - - - - - - - - - -
HZIV	(SEQ ID NO. 4)	P - - - - - - - - - - -
	(SEQ ID NO. 30)	L L Y S <u>N G</u> <sup>CDR1</sup> K T Y L N W L L
KRI27VK	(SEQ ID NO. 29)	CTC TTA TAT AGT AAT GGA AAA ACC TAT TTG AAT TGG TTA TTA 126
	(SEQ ID NO. 48)	L L H S D G K T Y L Y W Y L
DPK12-JK4	(SEQ ID NO. 45)	CTC CTG CAT AGT GAT GGA AAG ACC TAT TTG TAT TGG TAC CTG
HZI	(SEQ ID NO. 37)	CTC TTA TAT AGT AAT GGA AAA ACC TAT TTG AAT TGG TTA TTA
HZIV	(SEQ ID NO. 3)	CTC TTA TAT AGT AAT GGA AAA ACC TAT TTG AAT TGG TTA TTA
HZI	(SEQ ID NO. 38)	- - - - - - - - - - -
HZIV	(SEQ ID NO. 4)	- - - - - - - - - - -
	(SEQ ID NO. 30)	.Q R P G Q S P K R L I Y <u>L V</u> <sup>CDR2</sup>
KRI27VK	(SEQ ID NO. 29)	CAG AGG CCA GGC CAG TCT CCA AAG CGC CTA ATC TAT CTG GTG 168
	(SEQ ID NO. 46)	Q K P G Q P P Q L L I Y E V
DPK12-JK4	(SEQ ID NO. 45)	CAG AAG CCA GGC CAG CCT CCA CAG CTC CTG ATC TAT GAA GTT
HZI	(SEQ ID NO. 37)	CAG AAG CCA GGC CAG TCT CCA AAG CGC CTA ATC TAT CTG GTG
HZIV	(SEQ ID NO. 3)	CAG AAG CCA GGC CAG CCT CCA CAG CGC CTA ATC TAT CTG GTG
HZI	(SEQ ID NO. 38)	- K - - - - - - - - - -
HZIV	(SEQ ID NO. 4)	- K - - - P - Q - - - - -

# REPLACEMENT SHEET

## FIG. 4B

		CDR2															
		S	K	L	D	S	G	V	P	D	R	F	T	G	S		
KRI27VK	(SEQ ID NO. 29)	TCT	AAA	CTG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTT	ACT	GGC	AGT	210	
	(SEQ ID NO. 46)	S	N	R	F	S	G	V	P	D	R	F	S	G	S		
DPK12-JK4	(SEQ ID NO. 45)	TCC	AAC	CGG	TTT	TCT	GGA	GTG	CCA	GAT	AGG	TTT	AGT	GGC	AGC		
HZI	(SEQ ID NO. 37)	TCT	AAA	CTG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTT	AGT	GGC	AGT		
HZIV	(SEQ ID NO. 3)	TCT	AAT	CGG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTT	AGT	GGC	AGT		
HZI	(SEQ ID NO. 38)	-	-	-	-	-	-	-	-	-	-	-	-	S	-	-	
HZIV	(SEQ ID NO. 4)	-	N	R	-	-	-	-	-	-	-	-	-	S	-	-	
	(SEQ ID NO. 30)	G	S	G	T	D	F	T	L	K	I	I	R	V	E		
KRI27VK	(SEQ ID NO. 29)	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	ATC	AGA	GTG	GAG	252	
	(SEQ ID NO. 46)	G	S	G	T	D	F	T	L	K	I	S	R	V	E		
DPK12-JK4	(SEQ ID NO. 45)	GGG	TCA	GGG	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	CGG	GTG	GAG		
HZI	(SEQ ID NO. 37)	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	AGA	GTG	GAG		
HZIV	(SEQ ID NO. 3)	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	AGA	GTG	GAG		
HZI	(SEQ ID NO. 38)	-	-	-	-	-	-	-	-	-	-	-	S	-	-	-	
HZIV	(SEQ ID NO. 4)	-	-	-	-	-	-	-	-	-	-	-	S	-	-	-	
		CDR3															
		A	E	D	L	G	V	Y	Y	C	V	Q	G	T	H		
KRI27VK	(SEQ ID NO. 29)	GCT	GAG	GAT	TTG	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT	294	
	(SEQ ID NO. 46)	A	E	D	V	G	V	Y	Y	C	M	Q	S	I	Q		
DPK12-JK4	(SEQ ID NO. 45)	GCT	GAG	GAT	GTT	GGG	GTT	TAT	TAC	TGC	ATG	CAA	AGT	ATA	CAG		
HZI	(SEQ ID NO. 37)	GCT	GAG	GAT	GTT	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT		
HZIV	(SEQ ID NO. 3)	GCT	GAG	GAT	GTT	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT		
HZI	(SEQ ID NO. 38)	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	
HZIV	(SEQ ID NO. 4)	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	
		CDR3															
		F	P	Q	T	F	G	G	G	T	K	L	E	I	K		
KRI27VK	(SEQ ID NO. 29)	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGG	ACC	AAG	CTG	GAA	ATC	AAA	336	
	(SEQ ID NO. 46)	L	P		T	F	G	G	G	T	K	V	E	I	K		
DPK12-JK4	(SEQ ID NO. 45)	CTT	CCT	CEN	ACG	TTC	GGT	GGA	GGC	ACC	AAG	GTG	GAA	ATC	AAA		
HZI	(SEQ ID NO. 37)	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGC	ACC	AAG	GTG	GAA	ATC	AAA		
HZIV	(SEQ ID NO. 3)	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGC	ACC	AAG	GTG	GAA	ATC	AAA		
HZI	(SEQ ID NO. 38)	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	
HZIV	(SEQ ID NO. 4)	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	